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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/567,850

02/10/2006

Chang Wook Kim

9988.299.00-US

7333

30827

7590

03/17/2008

MCKENNA LONG & ALDRIDGE LLP  
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EXAMINER

GRAVINI, STEPHEN MICHAEL

ART UNIT

PAPER NUMBER

3749

MAIL DATE

DELIVERY MODE

03/17/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/567,850	<b>Applicant(s)</b> KIM, CHANG WOOK	
	<b>Examiner</b> Stephen Gravini	<b>Art Unit</b> 3749	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 February 2006.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-14 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 February 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Barrett et al. (US 3,946,500). The claims are reasonably and broadly construed, in light of the accompanying specification, to be disclosed by Barrett as comprising:

a cylindrical drum main body formed through a seam-welding process at column 1 lines 23-35;

a drum head comprising a main head rim having a predetermined width in a direction toward a center of the drum main body, the main head rim being coupled to a first end of the drum main body and provided with a plurality of elevated portion, and a support sleeve bent from an end of the main head rim at column 2 lines 1-51;

a drum rear wall coupled to a second end of the drum main body and provided with a plurality of hot wind introducing holes again at column 2 lines 1-51; and

a lift coupled to an inner circumference of the drum main body to lift the laundry at column 2 lines 33-35. Barrett also discloses the claimed main body provided with at least one penetration hole **10** used for coupling the lift on the drum main body, wherein a portion where the penetration hole is formed is depressed from an

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outer circumference of the drum main body and wherein the lift is provided at a bottom surface with a positioning projection that is to be inserted into the penetration hole at column 2 lines 36-49.

Claims 8-10 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Eden (US 1,169, 782). The claims are reasonably and broadly construed, in light of the accompanying specification, to be disclosed by Eden as comprising:

a cylindrical drum main body provided with at least one coupling hole **8**;

a drum head **4** coupled to a first end of the drum main body;

a drum rear wall **5** coupled to a second end of the drum main body; and

a lift **10** mounted on an inner circumference of the drum main body and provided at a bottom surface with positioning projection **14** inserted in the coupling hole and with a boss in which a coupling member is inserted. Eden also discloses the claimed inner circumference defining the coupling hole in which the positioning projection is inserted is bent outward of the drum main body as shown in figure 5, wherein a portion where the coupling hole is formed is depressed to define a conflicting prevention groove as shown in figure 4, and wherein the lift is fixed on the drum main body by a coupling member penetrating the coupling hole and inserted in the boss as shown in figure 3.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148

USPQ 459 (1966), that are applied for establishing a background for determining

obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 2-3 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Barrett. Barrett discloses the claimed invention, as rejected above, except for the claimed forming process, welding portion, and head wall seam-weld. It would have been an obvious matter of design choice to provide those types of forming fabrications, since the prior art teachings of Barrett would perform the invention as claimed, regardless of the type of forming process, welding portion, or head wall seam-weld.

Claims 11-12 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eden. Eden discloses the claimed invention, as rejected above, except for the claimed hole depth or location and coupling member location. It would have been an obvious matter of design choice to provide those types of forming fabrications, since the prior art teachings of Eden would perform the invention as claimed, regardless of the hole depth or location and coupling member location.

### ***Double Patenting***

Claims 1-14 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-10 of U.S. Patent No. 7,340,849.

Although the conflicting claims are not identical, they are not patentably distinct from each other because it would have been an obvious matter of design choice to recite the claimed seam weld process with the applicant assignee patented drum structure for greater strength, durability, and fabrication stability..

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen Gravini whose telephone number is 571 272 4875. The examiner can normally be reached on normal weekday business hours (east coast time).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven B. McAllister can be reached on 571 272 6785. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Stephen Gravini/  
Primary Examiner, Art Unit 3749